

**Technical Work Group
of the Imperial Valley Study Group
DRAFT Meeting Minutes: January 20, 2005**

Attendees: David Barajas, Mark Etherton, IID; John Kyei, CA ISO; Robert Jackson, Rich Sheaffer, Dave Miller, SDG&E; Phillip Leung, SCE; Dale Stevens, MidAmerican Energy; Alberto Gonzalez, Jose Santamaria, CFE; Dave Olsen, CEERT. Observers: Mike Evans, Shell Trading/Coral Energy; Jim Kritikson, consultant. The meeting convened at 12:00 noon. Minutes were recorded by Dave Olsen.

Minutes of the December 7, 2004 meeting were approved as revised. Revised draft minutes are attached, with corrections and additions shown in Track Changes mode.

Need for updated maps/diagrams of study alternatives: IID agreed to update and circulate diagrams of the alternatives, and a map indicating the rough geographic location of the upgrades. Such a map will help each organization's senior management to understand what is being studied. It was agreed to add Palo Verde-Devers 2 (DPV2) to the map/diagrams.

Base case review order: It was unanimously agreed that IID be the last to add its projects to the 2014 HS/LA cases now being prepared. SDG&E and SCE have completed their additions and are comfortable with the modified HS base case. CFE will add its modifications next, followed by WAPA, who will send the case back to IID. The same order will be observed for modification of the LA base case: SDG&E, SCE, CFE, WAPA, and then IID.

The Work Group noted the danger that modifying inter-ties has the potential to eliminate any modifications connected to those inter-ties. Phil Leung agreed to send a notice of this potential problem to TWG members not present.

Study alternatives: It was agreed that we should indicate that our studies are not tied to 2014 or any particular year. We chose 2014 because a WECC HS case was available, and because that year is roughly in the middle of a plausible development scenario for new Imperial Valley geothermal resources.

It was agreed to add a 500 kV line from Imperial Valley to Bannister to Devers, as an Alternative 5. We had originally proposed to study this, but removed it to make the study scope more manageable.

We agreed to add/turn on DPV2 in both base cases. We also agreed to keep a new Vincent-Mira Loma 500 kV in both cases, as the ISO has asked SCE to begin the study process on that line.

The new CFE generation scenario shows increased export to California. We agreed to show 146 MW of export from Mexico in our base cases.

Dispatch scenarios: We agreed to use the ISO Generation Retirement assumptions as a guideline for SCE, PG&E and SDGE areas, and to also factor in non-ISO retirements. IID proposed two dispatch scenarios for use in sinking generation to various service territories. Mark Etherton will send these dispatch scenarios to the TWG.

Contingencies: Each TO should send the list of contingencies it will model to Mark Etherton. IID will then compile a master contingency list for our study.

Resource Quantities: Dave Olsen agreed to circulate the California Energy Commission Renewable Resources Development Report, which lists the development potential for each resource by county. This report shows a very large solar thermal (Concentrating Solar Power) potential for Imperial County, along with 450 MW of wind resource. But no wind or solar thermal projects have been proposed in the county. The report shows 2,200 MW of geothermal potential in the county, in addition to the 200 MW now being developed by MidAmerican Energy/IID as Salton Sea Unit 6. This figure includes resource at both the Salton Sea and Heber/East Mesa KGRAs; it does not include any of the Cerro Prieto resource in Mexico. It provides the rationale for the export quantity of the IVSG transmission study.

Work Schedule: Heavy Summer base case: CFE will complete its modifications and send the file to WAPA by January 26. WAPA will complete its modifications and send the file to IID by February 2. IID will complete the master base case, and the master contingency list by February 8, before the STEP meeting Feb. 9 and the next TWG/IVSG meetings Feb. 10.

Light Autumn base case: SDGE will complete its modifications and send the file to SCE by January 21. Each TO will add to the case and send it on within two working days of receiving it, so that we can have both the HS and LA master base cases completed by the time of our next meeting.

Power flow studies of each alternative to be completed by March 10.

Report to the IVSG: We agreed to make the following presentation of the work of the TWG to the full Imperial Valley Study Group on February 10:

1. Review each of the five study alternatives, with maps/diagrams--IID
2. Outline how the master base case was developed--SDGE. This will explain major features inserted or deleted (e.g., PVD2, Vincent-Mira Loma, P-49 rating); 2014 as an indicative year for study, but not a firm year; dispatch scenarios for the thermal studies, including what generation is backed off.

Next Meetings: Technical Work Group:

February 10, 8:00-11:00 AM at SDG&E, San Diego (following the February 9 STEP meeting). Objective: make sure we're agreed on the master base case starting points for our thermal studies.

March 10, 11:00 AM-5:00 PM, at SDG&E, San Diego. Objective: review preliminary results of power flow runs.

April 12, 12:30-4:00 PM, at SDG&E, San Diego. This is intended to be the day before the next STEP meeting, which has been tentatively scheduled for April 13. This date will be confirmed after the STEP meeting date is confirmed on February 9.

Next Meetings: Full Study Group:

February 10, 2005, 11:30-3:00 PM, at SDG&E, San Diego

The meeting was adjourned at 3:30 PM.